electron donative precursor, by heating the reversible heat sensitive layer to a molten state and then quickly cooling to a solid colored state; and

heating a part of the reversible heat-sensitive recording layer to a color-erasing temperature range that is lower than the melting temperature of the reversible heat sensitive recording layer, wherein the part is uncolored and stores the information.

4. (currently amended): A method of writing information on a reversible heat-sensitive paper comprising the steps of:

preparing the reversible heat-sensitive paper comprising a reversible heat-sensitive recording layer that comprises an electron donative precursor and a phenol-based compound with long chains in the alkyl group as a reversible developer that colors and uncolored the electron donative precursor, formed on a supporting base;

irradiating the reversible heat-sensitive paper with light;

heating an irradiated part so that the reversible heat-sensitive recording layer is heated to a molten state, then quickly cooling the irradiated part to produce a colored portion; and

irradiating the colored portion with light partially in superimposition to produce a double irradiated portion, and uncoloring the doubled irradiated portion by maintaining the portion in a color-erasing temperature range that is lower than the melting temperature of the reversible hear-sensitive recording layer, for a predetermined time.

5. (previously amended): A method of writing information onto a reversible heat sensitive paper, comprising positioning an exposing mask between a light source and the reversible heat sensitive paper, transmitting light through the mask and focusing light on the reversible heat-sensitive paper, whereby two dimensional information is written.

6. (currently amended): A method of writing information on a reversible hear-sensitive paper, comprising the steps of:

providing a reversible heat-sensitive paper comprising a reversible heat-sensitive recording layer that comprises an electron donative precursor and a phenol-based compound with long chains in the alkyl group as a reversible developer that colors and uncolors the electron donative precursor, formed on a supporting base;

irradiating the reversible heat-sensitive paper with light to heat the paper,

selectively cooling a second portion of the paper at a relatively faster rate to produce a colored portion.

7. (canceled)